

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 160, 1 (2019)	21-Oct-2019

$Q(\beta^-)=4656$ 10; $S(n)=4.53\times 10^3$ 5; $S(p)=1.147\times 10^4$ 11; $Q(\alpha)=-3484$ 20 2017Wa10
 $S(2n)=11096$ 5; $S(2p)=21952$ 11 2017Wa10

 ^{155}Nd LevelsCross Reference (XREF) FlagsA ^{252}Cf SF decay

E(level) [†]	J^π [‡]	$T_{1/2}$	XREF	Comments
0.0 [@]	(3/2 ⁻)	8.9 s 2	A	$\% \beta^- = 100$ J^π : tentative assignment of 2008Hw02 based on (3/2 ⁻) for the g.s. of ^{153}Nd and $^{155,157}\text{Sm}$. $T_{1/2}$: from 1987Gr12, $\gamma(t)$, K x ray(t). This value is also reported in other publications (1988GrZY,1990An31) from this group. Other: 9.5 s 7 (1986Ok08,1990Ok04).
59.8 [#] 3	(5/2 ⁻)		A	
135.8 [@] 3	(7/2 ⁻)		A	
230.7 [#] 3	(9/2 ⁻)		A	
340.3 [@] 4	(11/2 ⁻)		A	
613.3 [@] 5	(15/2 ⁻)		A	
954.3 [@] 6	(19/2 ⁻)		A	
1361.8 [@] 7	(23/2 ⁻)		A	
1831.6 [@] 7	(27/2 ⁻)		A	

[†] From least-squares fit to $E\gamma$'s, assuming an uncertainty of 0.3 keV.

[‡] Tentative assignment of 2008Hw02 based on the fact that the $\nu 3/2[521]$ rotational band in ^{153}Nd has nearly identical transitions as this one in ^{155}Nd .

[#] Band(A): $\nu 3/2[521]$, $\alpha = +1/2$.

[@] Band(a): $\nu 3/2[521]$, $\alpha = -1/2$.

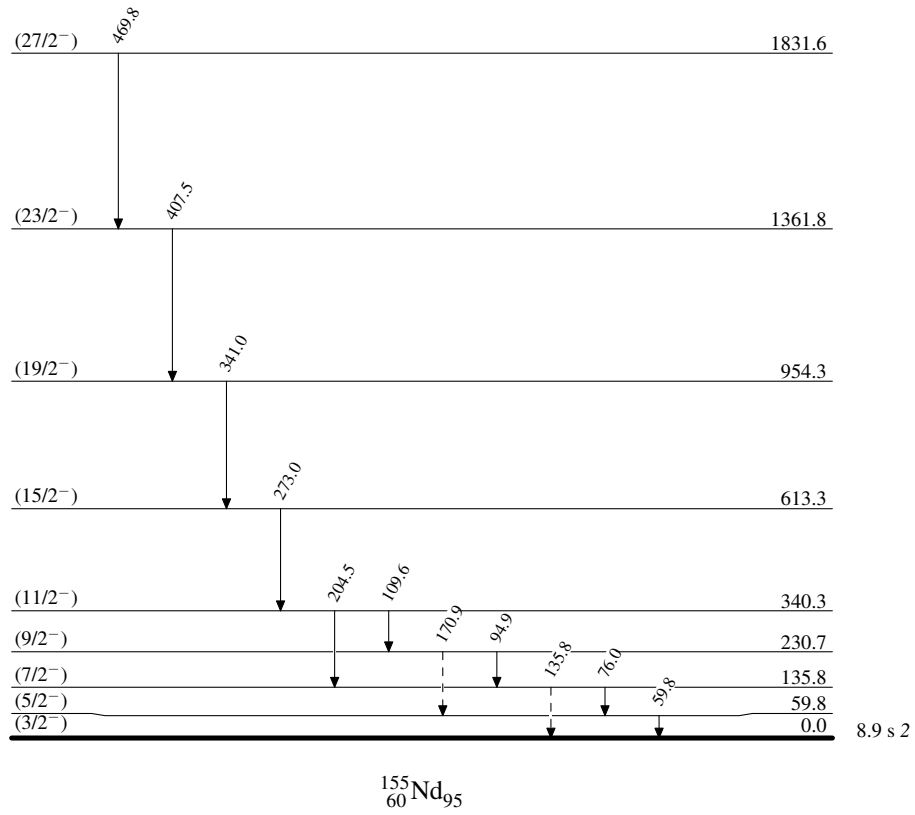
 $\gamma(^{155}\text{Nd})$

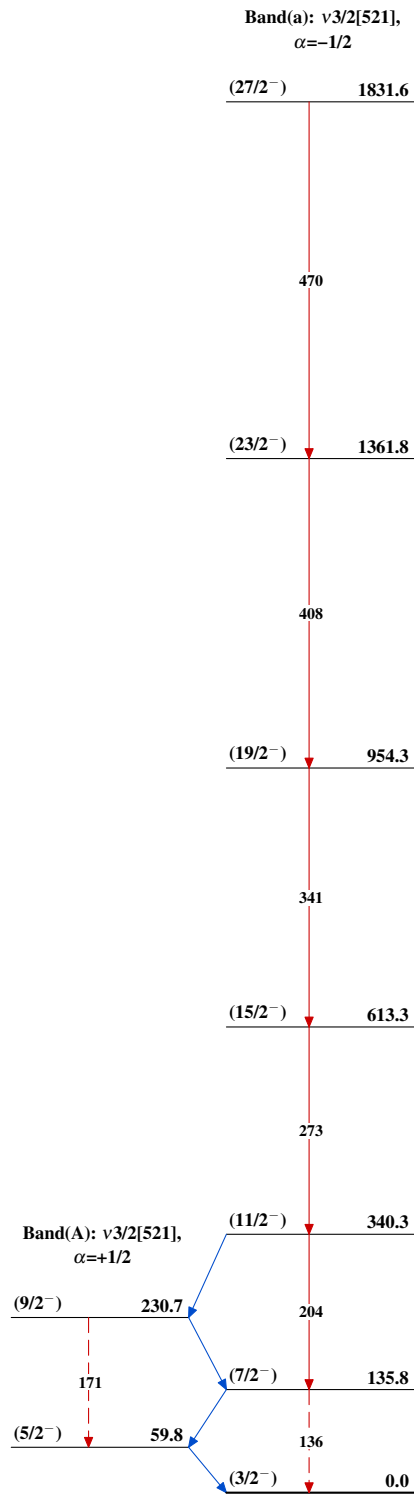
$E_i(\text{level})$	J_i^π	E_γ	E_f	J_f^π	$E_i(\text{level})$	J_i^π	E_γ	E_f	J_f^π
59.8	(5/2 ⁻)	59.8	0.0	(3/2 ⁻)	340.3	(11/2 ⁻)	204.5	135.8	(7/2 ⁻)
135.8	(7/2 ⁻)	76.0	59.8	(5/2 ⁻)	613.3	(15/2 ⁻)	273.0	340.3	(11/2 ⁻)
		135.8 [†]	0.0	(3/2 ⁻)	954.3	(19/2 ⁻)	341.0	613.3	(15/2 ⁻)
230.7	(9/2 ⁻)	94.9	135.8	(7/2 ⁻)	1361.8	(23/2 ⁻)	407.5	954.3	(19/2 ⁻)
		170.9 [†]	59.8	(5/2 ⁻)	1831.6	(27/2 ⁻)	469.8	1361.8	(23/2 ⁻)
340.3	(11/2 ⁻)	109.6	230.7	(9/2 ⁻)					

[†] Placement of transition in the level scheme is uncertain.

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Legend

Level Scheme-----▶ γ Decay (Uncertain)

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